Rec- June 11

New Braunfels May 13th/57

Dr G. Engelmann

Dr Sir

Mr Lindheimer tells me that you have no information I sent you from my collection the localities of Cactaceae When I packed them up I wrapped them in paper within which was a slip marked with the number as contained in the general catalogue sent to Dr Gray I send the numbers & corresponding localities though doubtful whether they will be of any benefit to you

No 564 Prairies on Elm creek June 30th (acid)
643 Bluffs of the San Felipe 6-12 in high & 6 in diam Flowers expand in the morn
752 Declivity of hills on Devils river Fruit lone. smooth scarlet July 28th
753
825 Plains beyond the Pecos 6 ft high " green
826 hills " " " branching (& tastes like a strawberry
1228—1237 Declivity of mountains at El Paso Sept. -29 Fruit scarlet -31 Fl. pink -33 Fr. scarlet
1240 " " "

I see you occasionally send Mr Lindheimer sheets from Silliman's Journal & the like illustrating particular genera

Could not you confer the like favors on me & I will recapitulate in such way as I am able I dont know how to direct you to send any thing to me but Dr Torrey can give you such information I have heard nothing from Dr Gray in some time I have not yet seen Maj. Graham in whose party I expect to go though I have been to San Antonio twice for that purpose Since the plan was first devised for my tour with the party of the Boundary Commission I have rode from 400-500 miles on journeys of enquiry connected with the matter —— almost far enough to go to El Paso —— and yet I am not come to a point of certainty so as to be able to say without hesitancy "I am going to El Paso" In this way I lost all the last year & the present is sliding by So you see how I have been be-deviled about

I shall go to San Antonio tomorrow when I hope to see Maj. Graham & decide finally whether I go or stay

I would have gathered many more Cactaceae if I had been allowed transportation I could have done much more for science in that way than did Capts French & Heiny who each secured an immense specimen of Echinocactus Wislizenii large enough to fill a barrel & weighing almost as much as my entire baggage & at last Capt. F. suffered his to freeze to death in New-Orleans What fate befel the other I know not

I did not expect to spin so long a yarn when I began yet as I have taken the initiative I hope to hear from you and receive any useful directions for preserving Cactaceae collecting

Your respectfully Charles Wright

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GEORGE ENGELMANN PAPERS

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M. Wright —

No. 29 (Lin 20. Engl.) Low bottoms: Rio Grande, below El Paso. Sept.

31 (Lin 22) ~~to locality not given~~ Hillsides near the Limpia Pass: Sep.

(~~1 to 6~~) Mountain valleys ~~below~~ 30 or 40 miles from Rio Grande below El Paso: Sep.

30 (21 to E.) — Below ~~the Rio~~ El Paso. Rio Grande —

~~(23 to E.~~ =

31 (23 to E.) Mountain valleys. 30 or 40 miles fr. Rio Grande.

32 (24 to E) San ~~Pedro River~~ Felipe R. — below,

33 (16 to E) — & San Pedro or Devil's R. in sandy soil

the afternoon & remain open till next mid-day.

also Live Oak creek & Las Moras. June. —

+ (17 to E.) No locality: not distributed. — Mam. Ed.

34 (19 to E). Bottoms of the Lena: June.

35 " Mt. Valleys toward the Rio Grande: Aug.

36 (new) " " " — Sept.

37 (15 & 18) Valley of Rio Grande 60–70 miles below El Paso Sept.

223 (Cactus A. E. — Hills of San Pedro River July.

6. 6. (uncertain locality) E. flexispinus

Prairies on Elm Creek, June. Echin. longihamatus

224 " E. Austin, A — Echinocactus Texensis

225 — mixed with E. — " — — E. Texas —

225 (bis) 3 species Hills of San Pedro River, July.

Mt. partinatta

226 " " " " "

227 (B.) High hills — " " — (Agaves) Sept.

Grass of dry gravelly soil

XX Mam. micromeris

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M. applanata
— Ebriensis
— radosa ?
— Imbecilli !
— perdinata
Ech Cati ornatus
venosatus
Cer vindiplana
Oxyacanthæ
albipicta
Geometra papilionaria

Cuba Wright 1845

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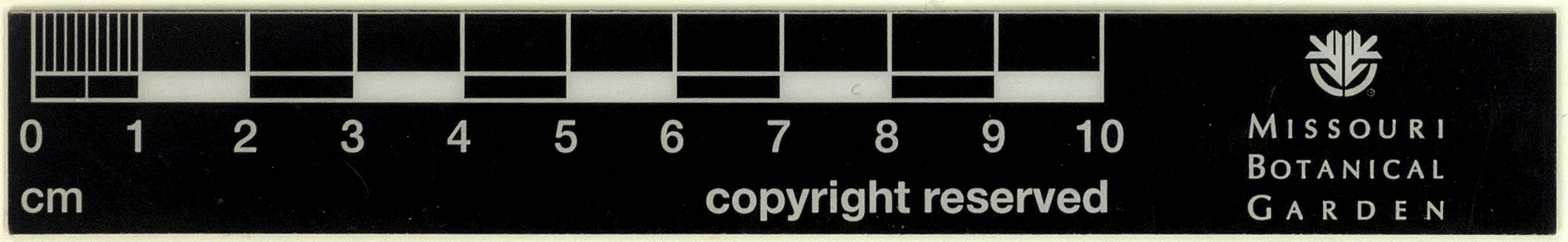

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Rec'd Aug 29
Ans Sept 5

Wright

Frontera June 28th 1857

Boundary

My Dear Sir

Just before leaving New Braunfels I wrote you a few lines to assist you in the study of the few cactaceæ which I brought home with me on my former return from El Paso I have now gone over the route ~~abov~~ again and am now eight miles above El Paso where I arrived on the evening of the 25th On the route I ~~have~~ secured small specimens of nearly all the cactaceæ except the Opuntias — and some of them I sent you a small mammillaria collected on the San Pedro or Devils river or rather Dr Gray sent it to you which is all the same thing It is very small but please don't name it minima for the very best reason that I have now found another smaller. It is dangerous to give plants from a new country superlative names I would for superficialis = even with the surface of the ground might with propriety be named Lecontiana Its range I now find to be from a small creek with pebbly bed just beyond the Zoquete creek near the Pecos The smaller species may be with propriety named plumosa or gossypina the spines being furnished with a downy or feathery filaments They both have lance-clavate, scarlet, smooth fruits I have abundant fruit of the first which attain the diameter of 1¼ inch but I have seen of the latter no specimen more than ¾ in. in diameter and but one sp. with fruit I found it most abundant about Leon Springs on stony hills I secured nearly all the specimens I saw The first is flat or somewhat umbilicate at the summit the latter rotund I found Cereus Greggii on the Pecos Again on the Limpia in fruit On the Pecos I found a Cereus like No 1 in Emory's report called a Mammillaria that I can hardly resist the belief that it is the same thing C. Greggii has huge fusiform root I have secured a good deal of fruit but I fear I have moped it up so much that cultivation alone will reveal its relation with the specimens which I shall send

It is very dry here and but little of interest except cactaceæ can now be found I shall in a few days turn out to see what I can find of these I intend to fill a barrel to send back by the returning train

I have written to Dr Gorey begging him to procure & send me any & every thing of moderate size relating to the plants of the regions I am about to traverse with the Boundary Commission May I ask of you the same favor as to the cactaceæ? I have such of your writings as are contained in the accounts of Lieuts Emory & Mollhausen & Gendlers plants but I find they by no means cover the ground. In my journal I have made some observations on plants particularly the range of some cactaceæ This I shall send to Prof. Henry from whom you can probably procure it

July 1 I wish I had the generic description of the cactaceæ The fruit of Echinocactus Texensis is externally very much like that of the Abam millarias while that of E Wislizeni more nearly resembles some cereus I find near El Paso a plant of E. Wislizeni full 3 ft in diameter measured from the points of the spines and 4 ft high I have today repacked by the returning train a barrel filled with cactaceæ in a coffee-sack In the bottom of the barrel (as I put them in a coffee sack) are those I collected on my way from San Antonio to El Paso The others were all found in the vicinity of this place One small E. Wislizeni is included There are a good many Opuntias The section Applanatæ busy I could not do much with them from their unwieldiness and the difficulty of distinguishing them — so I have thus far neglected most of them I intend however to observe them closely in future if we stay here any length of time — You will probably receive a communication from Col Graham who is very tenacious of his claims to what the naturalists connected with his party may collect and would wishes all the glory of new discoveries to rest on his brow as head of the commission He is very fearful that I may send back something which will fall into the hands of some botanist and be described without a mention being made "that it was collected by the gentlemen connected with

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U.S. Boundary Commission" You must write nothing relative to these plants without beginning and ending it with the statement that they were the result of the labors of the naturalists who accompanied the Boundary Commission After all this is done I hope you will bestow a thought on my pecuniary interests for my salary (which is not yet settled) will I fear be small enough. My labors great, and my comforts few Col Graham knows nothing of what I have sent to you except the mere fact that it is a barrel of Cactaceae So you can after gratifying his vanity consult my interest ad libitum though I suppose he will claim at least a set for Government perhaps a set for presentation to some other Scientific Institution If I should be reasonably remunerated for my labors on this expedition I shall probably embark on another — if I recieve little compensation I shall have to give up the business — so you see it is your interest to use some exertions to keep me in the work of collecting and this can most effectually be done by making the business so far profitable that I can fit myself out for more expeditions more convenient operations on any subsequent expedition in which I may ~~engage~~ embark

I shall be most happy to hear from you Any thing sent to me (if no private opportunity of sending occur which is better) may be directed "Charles Wright care of Col J. D Graham El Paso del Norte via Santa Fé" and would probably find me It would give me great pleasure to know that I have sent you anything of novelty or interest

I am Dear Sir

Your most obd't Servt

Charles Wright

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

Rec'd Orbob 2d
Ans Oct 22

Coppermines Aug. 7th 1851

Dear Doctor

I have inflicted upon you two or three epistles nevertheless I suppose you will not be unwilling to learn from me what kind of vegetation we have here in the recesses of the mountains of New Mexico I have been here less than a week yet I have taken several rambles over the hills & valleys and found many things new to me There are three pines two of which I have examined — P. edulis and the other not agreeing with any mentioned in Wislizenus — four oaks. Q. Emoryi is common the other three I have no means of studying A large, low, spreading cedar, with bark like some pines or like hemlock & nourishing a leafless kind of mistletoe A sp. of Juglans perhaps not different from J. nigra is common along the creek Two sp. of Solanum are met with nearly allied to S. tuberosum and bearing on their roots little tubers the very counterpart on a small scale of the tubers of that specie One is found on the summits of the mountains the other from foot to top On the side of the mountain I find an oxalis with leaflets from 5–9 narrowly obovate or oblanceolate deeply emarginate at the end Fl. purple in umbels This is the rainy season of the spring as Dr Bigelow calls it and most of the plants are just coming into flower among which are many Leguminosæ not yet old enough for study I find a singular Galactia with some of the leaves ternate some singularly quinate viz when the pair of leaflets is usually, four come out from the same point This is evidently not accidental for almost every plant exhibits instances of the var-

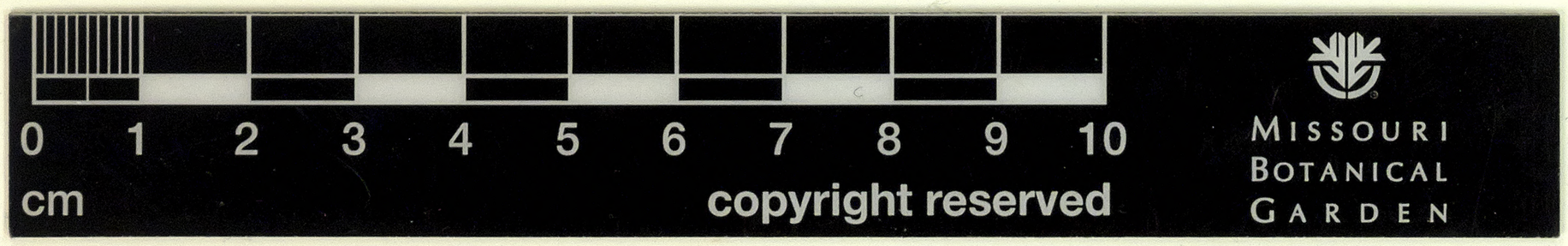
tion The flowers are large deep purple and (I believe) solitary I found yesterday a beautiful minute Portulaca of the section Spathulatae with small flowers, yellow at the margin inclining to ochreous in the centre Plant apparently young 1-2 inches high. Suberect Two sp. of Calliandra are common here Two sp. of Hedyotis H. humifusa and another nearly related sp. with very long narrowly tubular corolla are found here also a yellow-flowered Coopeia Two or three Pentstemons also & a scarlet flowered Salvia Oxygonum & Nyctaginaceae in abundance ——— But I suppose you will want to know something of the Cactaceae I have collected the fruit of Cereus Greggii which however is not smooth but with areolae spiny about in the same proportion to the spines of the stem as the fruit of other cactaceae C. Greggii has a huge soft fusiform root like a carrot in shape — besides which I have collected two other species and observed & collected the fruit of a third & four sp of Mammillaria and another of which I am in doubt whether it is a Cereus or an Echinocactus Besides O. puntia arborescens I have noticed certainly three sp. of the section Explanation I saved the fruit of some of these which though of a green color may be mature I will enclose the seed of some of these with brief descriptions

No 1 Cereus Greggii

No 2 Cereus Simple or cespitose 6in high Ribs 10-11 somewhat interrupted between the orbicular areolae Radial spines 7-9 white or brownish ½-1 inch long appressed Central 1, slender two inches long somewhat contorted

No 3 Cereus Very cespitose Ribs about 13 Radial Spines about 10 Central 1-1½ in long 1-4, Fruits small ovate greenish-red the areolae armed with 12-15 slender white spines ½ in long The dark-red or remains of the flower corolla persistent

No 4 Opuntia Very low-6-12 in joints short obovate somewhat triangular in outline Spines few along the margin Areolae distant Fruits long



slender conspicuously ~~subtuberculate~~ deeply umbilicate with few areolae

No 5 Opuntia joints large orbicular Areolae numerous Spines yellow
2-4 deflected 1 inch long many 1-4 lines long Fruit large round obovate
with numerous small areolae armed with short yellow spines
Umbilicus deep Plant 3 ft high spreading Fruit (immature) green
with a thick pulp 1½ in long 1 in in diameter Aug.

No 6 Mammillaria radiosa? Very thickly covered with spines
Plant with smaller height & larger diameter than specimens seen in ~~Texas~~
Texas Opuntias

Nos. 7 & 8 Found in sandy bottoms of the Rio Grande at Doña Ana
Aug 8 I examined today the third sp. of Pinus I think it is not described
in Wislizenus Report I have now before me a Palinurus which I
have not seen in flower in the morning according to the general
habit of the genus — but now (4 P.M.) a light pink small flower
is expanded It closely resembles G. teretifolium — the acute tips of the sepals
deep purple — the root or stem somewhat tuberous or thickened above the
surface of the ground Filaments and Pistil of the same length — white
anthers yellow — stigma light yellow — shorter than the petals Flower 7/16 in.
diameter Capsule triangular purple at summit — I found another
oak today high up the mountain sides closely resembling the
Post oak (Q obtusiloba) in general form but probably distinct — also
a small white barked Populus in the same locality — and a ribes a cenoa,
and a Symphoricarpus — also a tall spiraea Two Bouchea
are found on the mountain sides (N. B. My Palinurus closed its flower before
sunset)

Aug 11 I have just found a Mammillaria distinct I believe from
any hitherto observed one of the flat-topped species about 1 3/4 inches in
diameter both horizontally and vertically Mamma ½ in long tipped with
white tomentum Spines radial about 12 very slender appressed white or

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the upper faintly tinged with brownish Central mostly, two divergent
hooked at the end brown or reddish-brown — all from ¼ — nearly ½ inch long
With two fruits, green in color crowned with the remains of the flowers Only one specimen
found The seeds not ripe

Enclosed is a flower & some leaves of the Gulactia mentioned above
Also the summit of one of the tubercles of the mammillaria just mentioned

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

Santa Fe. N. Mex.
Sept 1st 1854

Dr. George Engelmann
St. Louis
Mo.

5

Please write as soon as possible as I shall ever be happy to hear
from you Very respectfully
Your most obdt servt
Charles Wright

P.S. Direct letters to me "care of Col J.D. Graham U.S.A. Chf."

Closed Aug 18th

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Rec'd Sept 30th
Ans Oct 22

Coopersmiths Aug 16th 1851

Dear Dr.

Since I wrote you at length a few days ago which letter goes by the express of today a thought or two have occurred to me which I concluded to embody in a note to be conveyed by a friend

I have been collecting a few cactaceae but with no very definite notion when if ever I would be able to send them to you— Yet I think I could send them to Santa Fe almost at any time If you have there any friend who would interest himself to receive & forward them to you & if you will give me immediate instructions as to time plan & consignee I will endeavor to make up a small package & dispatch it to you this fall or at such other time as you may recommend

I spoke of a minute Portulaca in my other communication Upon examination I find it is your P. lanceolata

Very respectfully
Your most obdt servt
Charles Wright

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Ike Dan 5th 57
As May 20

Camp near Doña Ana Nov 9th/57

Dear Sir

I any apology for writing to you I e necessary it is that I have but little time to spare and taking you first on its way my epistle may deliver to you such parts of its contents as belong appropriately to you and may then be forwarded to Dr. Gray I forego and thus perform the office of two three or more letters which I will not now be able to write for reasons which I will mention presently

I wrote to you some time in Aug. I believe On the 27th of that month I started on an excursion through a very interesting region of country I presume you have the map of Emory's explorations of the Gila with Cooke's route delineated (if not you ought to have it) From the Cobre we went to Ojo de Vaca where we left Cooke's road turning to the right and pursuing nearly the direction of the line which Mr Leroux (erroneously) supposes it to be an open prairie On the contrary though less mountainous than the route pursued by the Col we crossed three considerable rangs before reaching the San Pedro and a fourth between that stream and Santa Cruz the termini of our journey in that direction We returned by Cookes road arriving after tarrying awhile at the Cobre long enough to enable me to glean the remains of Autumnal vegetation Started on the 31st ult for Frontera Arrived a few miles below this place I was detached by Col Graham to survey the Rio Grande from here down to Frontera So here I am with a scanty supply of the meanest writing materials that can be procured (the best however that a poor fellow out of money can get) occupying the remains of a Sunday evening in telling distant friends of a few of the curious things that I saw Will to begin with your favorites. Among the Cactaceae I saved next to nothing Some seeds were collected of some that were new to me The most remarkable plant of that family that I saw was an Opuntia allied (very closely) to elavata of the same prostrate habit but larger in all its parts but as you say Carbonaceous "horrible thing" more horridly [illegible] the Flor[illegible]

magnet I would miss it by coming back another way I certainly would have saved specimens It grew in very sandy mountain vallies and was seen in but one limited locality I am strongly inclined to think I found a second species of Wislizenia I had no books or specimens with which to compare it but the capsule was very rough with little tubercles and altogether the spike of fruit was much denser than that of W. refracta as well as I could recollect At Santa Cruz & its vicinity I found probably two or three species of Cuscuta some of them doubtless will prove to be new On a beautiful creek (which we could not follow to its embouchure but probably a branch of Santa Cruz river) I found a yucca in fruit with rigid leave like those of Y. longifolia but not more than two to three inches long and muconate slightly filamentose on the edges. the spike three to five ft high, fruit short like Y. Aloifolia leaves not succulent ~~like those of Y. longifolia~~ At Santa Cruz I met with a large Passiflora in fruit considerably like P. coccinea growing in crevices of rocks hardly climbing yet attaining a height of two or three feet A beautiful crimson-flowered Heuchera and an Aralia new to Dr Bigelow were also found here besides two species of Dioda and some Cucurbitaceae the long curved pepo of one bursting elastically and projecting the seeds In the Iguadalupe Pass I found a Loranthaceous plant growing on cedar different from one common at the Cobre This is leafless that has linear leaves an inch in length or nearly so In the vicinity of Santa Cruz I found two species of unifoliolate annual Desmodium and a third annual sp trifoliolate I think there are at least two sp. of pine at the Cobre besides P. edulis & P. Chihuana and an Abies which Dr Bigelow does not know On the Mimbres we find three sp. of Populus and a new? sp of Alnus I have apparently several Cheilas but I offer no opinion on these I presume I will also send back some novelties among the Portulacaceae I have seen four certainly of which I can find no description without reckoning two or three Talinums about which I am by no means satisfied Of the Compositae I have a great variety from the little Pectis an inch in height to one three to five ft. with large radical leaves cut & slashed up much in the manner of many Umbelliferae The Sonora Springs again produce a Cirsium six to ten ft. in height with radical leaves one to two ft in length and a large branching panicle three to five ft long The Flora gives me but little aid in the study of these north Mexican plants At the Cobre in abundance Springs apparently [illegible] from thence [illegible]

Chenopodiaceæ & Amarantaceæ abound wherever I have been
Leguminosæ are numerous and diversified I have latterly
collected a good many grasses I hope someone will grapple
vigorously the numerous Euphorbiaceæ which will be found
in my collection I have two or three Martynias but none
of those described in Wis. Rep. I found Cereus Greggii on the
Pecos & near the Coppermines Echinocactus Wislizeni is found at
El Paso and in Northern Sonora Several other Cactaceæ have a
similar extensive range Considering the nature of these
plants, their intangibility & the fact that the fruit of scarcely
one of them is eaten by birds or animals (so far as I know) will
not your opinion that they have a very limited range of growth
virginica
require some modification? Mammillaria radiosa if I mistake
not grows from the Colorado to Northern Sonora I do not
distinct species of Opuntia grow about the Cobre which I regret
that I did not save (though I have the fruit) one as remarkable
for its humble growth as the other for its height The former
consists of very few dark green obovate very obtuse joints with
few spines the other of many large glaucous-green orbicular spiny
joints with large depressed maple seeds while the fruit has dark green
narrow lanceolate small fruit with few seeds I have saved
the seeds of all the Cactaceæ I have met except the Op
tuna near Columbata and a purple flowered Opuntia seen near
the head of the Limpia belonging to the broad-jointed section &
the only one of that section that I have seen with purple
flowers I might have mentioned that Cairoensis has a
wide range being found from the Pecos in Texas to Northern
Sonora I have a few Cactaceæ found near the Coppermines
which I will hold in readiness to send to you and any others
which I may be able to collect at El Paso after I shall
have finished my job of surveying I hope to be able to do
something for Sullivant & Lackermann the coming winter
I sent a considerable package of plants to each of them some
eighteen months ago and have not heard as yet a word from
either relative to them For this reason last winter I was in
no very good humor and paid little or no attention to the
Cryptogames

The mail from Santa Fè passed down yesterday I entertain
some hopes that it may bring me a letter from you I am not
very sanguine however but if the next monthly mail brings me
to my letter I shall certainly think it hard if I do not get

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I hope you will overlook slips of the pen mistakes of memory or lack of knowledge, and look charitably upon any blunders which I may have made and to which any body in the wood without books or notes is liable I dont know when I will be able to arrange my collections and send them on for the amusement of you "chimney-corner" botanists or when I will if ever have a nook there in which to study them myself

It is bedtime So good night

Sincerely

Yours

Dr Geo. Engelmann

Charles Wright

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

Santa Fe N. Mex
Dec 1!
Dr George Engelmann
St Louis
Mo.

P.S. Nov 11 I am anxious to know what the people of the old States think of the queer proceedings of the Boundary Commission If you find any article in the Journals on that subject please cut them out and send them to me in a letter I am afraid this business will be like a suit in Chancery I hope I will be able to get out of it soon or at least away from the Rio Grand before another botanical season begins — Who studies the Euphorbiaceae?

I am confined in camp today by a cold drizzle from the north — too cold to write more than this hey D.S.

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Rec Jan 29 11
Ans May 20

Franklin Dec 18th 1851

Dear Sir

I improve a leisure moment to acknowledge the receipt of your letter of Ap 26th which has just come to hand under cover of one from Mr Thomas, more than ✕ with the expectation of communicating any thing of more than ordinary interest

I came to this country nominally as one of Col Grahams commissioners but having no duties to perform connected with observations my whole time has been spent in collecting

Maj C. Mory succeeding Col. Graham has promised me that I shall have time to collect in the proper season Col. G. has appointed me as head of a party to survey the river from Doña Ana to Frontera

This task being completed Maj. C has ordered me below the settlements near El P on another job to begin which ~~I shall start~~

I shall start tomorrow When the Spring opens I shall be far below and in an unexplored region but there is a great sameness in the vegetation of the Rio Grande Should I be kept actively engaged in the field you must be aware that I can collect but little and especially cactaceae While on a tour through Sonora and around the Copper mines I saved some few specimens and although I asked a friend to take care of them when I was detailed as a surveyor I have lost the track of them through his neglect I will do what I can for you next year and will interest my men to be on the lookout I sent a barrel from here in July which I hope will reach you in good condition and partly repair the loss which you sustained in the death of those formerly sent you I find a number here which I can not identify by Wislizenus or the Flora the only books from which I can gain any information

You have before this received several communication from me and one sent you in the Spring under cover of Lindheimer will I believe (& I hope not too late) give you some of the localities &c

You are also aware that in both my excursion to this region I have been too late in the season to be witness of the flowers of most of the Cacti their size, color number of segments, &c. &c.

Next spring I hope to do something for you in that line

I have enclosed you in my letter seeds of cactaceæ which I hope may be acceptable and productive Most of my seeds I have sent to my brother with direction to take a portion and forward the remainder to Dr Gray Among them are many cactaceæ of which I suppose you will receive your share

I have but little doubt that you have written to me since spring but our last mail was not delivered by the P. M. at Santa Fe because it was directed to the Coppermines which we have some time ago abandoned

Well I have spun out a pretty long letter as is commonly the case when one has nothing to write and as in former letters I have begged you rather importunately for books I will say nothing more at present on that subject

Sincerely Your Charles Wright

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Rec'd March 20th
Ans'd May 29th

Presidio de San Elizario Jany 24th 1852

Dear Sir

Your letter of Sept 4th & Oct 21st came to hand at the same time a few days ago

I am not surprised at your embarrassment caused by the conflicting instructions of Col G & myself I believe I gave you my reasons for my orders and now I will merely tell you what I would do if I were with you and met with no hindrance When there were duplicate I should not scruple to take one or two and leave the rest for nothing but that branch of our Government to which rightly falls the custody of such things *

Had he manifested to me the slightest liberality in this matter I would scorn to take such advantage of his ignorance / for he knows very little of the contents of the barrel / the box I generously collected for himself (my own suggestion) Isn't he liberal to me? ? ? Bah!!

Now you know the circumstances of the case you can do as you please & I will only add that he will probably never give himself much trouble to attend to those things and would be none the wiser if he should receive but half or two-thirds of the original collection

I am sorry to disappoint your expectations of finding Cereus Greggii in the barrel The Sp. I found on the Pecos was very large northout flower or fruit I dug it up & left it to be taken back by the return train for transportation to Washington Whether this was done I have not

* When only a single specimen is sent of new or important species that for Government

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learned. The fruit I found near the Mimbres on our way to the Copperminey - It was very scarce & I saved seeds only but I can testify to the correctness of Emory's figure You ask for a small specimen I have not seen one. It was a task to eradicate the one I found on the Pecos even in very loose soil all the others seen have been in stony soil and when circumstances prevented me from saving them I have seen but five or six specimens in all

I saw yesterday a specimen of Echinocactus Wislizeni about as large as a man's two fists together and I have often seen them with fruit of less size than a man's head

On my route through Sonora and about the Copperminey I saved a few Cacti such as I thought would be most interesting and when we started for Frontera put them in a Coffee sack & tied them under a waggon When below Doña Ana I was detailed on duty as head of a surveying party to survey the river I asked a friend to take care of them In the hurry of business he forgot them and they were probably taken to camp some two or three miles off Indeed some one told me he had seen them there I have commissioned Dr Bigelow to look them up & I hope they may form the nucleus of a larger package to be sent to Mr Blummer who has written me from Santa Fe

If I have sent you any thing worthy of a pecuniary consideration you may pay over to Dr Gray what you think proper who will know what to do with the money.

I have lately collected seeds of two sp. of Cuscuta one growing on Portulaca mostly & on Euphorbias the other on a glandular Helianthoid plant found in the Rio Grande bottom with them I enclose seeds of a

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Scrophulariaceous plant & of Berberis trifoliolata Also a miscellaneous mixture of many things found in the bottom of a sack in which I had stowed my seeds

Sincerely Yours

Charles Wright

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P. S. Thank you for the instructions for describing & preserving Cacti

C. W.

P.S. You say Echinocactus has scaly fruit If I am not very much mistaken in my recollection of the appearance of that of E. Lindheimeri ~~Texensis~~ it is as smooth as any fruit of Mammillaria and furthermore I never saw it crowned by the withered flower if my memory does not greatly deceive me I can say the same of another species abundant about El Paso nearly related to E. ~~Texensis~~ Lindheimeri with purple flowers and very woolly vertex around the fruit

C. W.

P.S. I know nothing or very little of Geology; hence I can hardly venture with safety to give you any remarks on the features of the country such as I made in Pl. Lind May observations which I communicate from time to time to Drs. Torrey & Gray are mostly confined to the enumeration of the more common plants found in the districts traversed

over

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P.S. Direct letters in "care of Maj W. H. Emory U.S. Boundary Commission" and they will be likely to hunt me up A paper now & then would be no drug neither

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Rec'd May 12th
Ans May 20

Frontera March 28th 1852

My Dear Dr

I have lately received a letter from Lindheimer containing a long quotation from one of yours to him whereby I am informed of the disastrous condition in which the cactaceae reached you Of Echinocactus Wislizeni he says "it was wrotten to mush" which caused us a hearty laugh—when his imperfect knowledge of our language was explained I sincerely hope all the specimens of Mam. Gossypina were not dead I shall wait impatiently for the next mail to hear

I am now relieved from my surveying duties and for some time I shall have nothing to do but study the flora of the vicinity Dr Bigelow & myself have begun a new collection for you with which you shall have this time plenty of note and comment We described today two entirely new species of Echinocactus

I should explain why no notes accompanied the former collection & why they were imperfectly packed It will require but a slight stretch of imagination to enable you to conceive that no lumber yards exist in this country, and that there are no carpenters within a few doors of us no nail shops handy Hence we piece (as al dernier resort) upon an empty barrel and as straw is not always handy (and is too heavy) we pick up a little dry grass, a few branches of shrubs or any trash that will possibly do to fill up chinks mark the barrel (the wagon is waiting—no time now for notes) & away I hope it will go quickly and with as few jolts as possible

At least four or five sp. of cactaceae are now in full bloom some of them most beautiful You may look out next time for a fine lot as May Downey seems quite anxious

that we may secure as many as possible

I wrote you of a small collection made at the Copper mines which Dr B. was commissioned to look up for me it having been mislaid It was found & with some of his own gatherings is now on the way to you

April 8 Dr Bigelow found today a Cereus with spines similar to those of C. cespitosus but with a very large yellow flower It is quite common I shall describe it & send flowers & specimens

We look for the Santa Fe mail tomorrow This will go "via" San Antonio To what Nat. Or. belongs Dipterandra Lindheimeri? It is common throughout this county & I collected it on my former visit to this county I found it on Devil's river

I hope to hear from you by the expected mail & will write whenever I have anything to communicate which I think will be interesting to you

Very respectfully
Your most obdt Servt

Charles Wright

P.S. As I saved today flowers of Mammillaria (Setispinula) micromeris and shall go and hunt for some more tomorrow I inclose some fruits of Nam. hemisphærica as I suppose

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Rec'd Octo 15
Ans Nov 10

de 15th Edwards 1849 ?

Cambridge Mass. Oct 4th/52

Dear Dr

I have now been with Dr Gray some ten da
and have been distributing my collections and assisting the
good Doctor with my feeble aid in bringing up the continua-
tion of Pl. Wrightianae to the end of Compositae and he is now
intercalating such novelties as I brought with me

He has already established some new genera and is now
trying to squeeze a curious Cruciger into some South-American
genus to avoid creating another

I have packed up the Cactaceae/specimens of them and of the
cucurbitas/ which were sent today to the Express Office We h
you will set to work on them soon and send in your repor ll
time to print them in their proper place; at least the Cactacea

In the Spring of 1850 I left some plants with Lindheim to
to be sent to you Can you send me some of these particular
any that are not named in Pl. Wrightianae as Echinocereus Wrightii
Nymphaea elegans Passiflora gossypiifolia &c.&c. or specimens of
all if convenient Some of them are rather rare & I would like
to distribute them with the sets now making up for distribution

If you want the Euphorbiaceae we can send them at some
future time though the Dr tells me you have been a long time on
a Monograph & I am afraid if you get more on hand you will
be longer yet

Write us what you will do for Pl. Wrightianae I wish
see some Cactaceae in it after all the labor & the pain I have
suffered in collecting & handling them You had better write to Dr.
Gray as my movements are somewhat uncertain

Yours truly

Chas Wright

P. S. Is Cruciger cochlearis to be squeezed in as a Christianea Dryop

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Rec'd Dec 2d
Ans. Dec 3d

Wethersfield Nov 23d 1852

My Dear Dr

Yours of the 9th inst came to hand by last mail from Boston — Glad to hear that you are at work with the Cactaceae. Dr Bigelow collected flowers of some sp. largely — but if you find my notes insufficient his will be still less satisfactory

I wrote you a day or two past — so now will merely make a few remarks on your communication

You ask why I did not collect fruit of Mam. Grahami I probably did ~~not~~ but it was included in the collection of seeds taken home by Col. Graham about a year ago and which were divided between the Botanic Garden at Washington & Dr Gray

The paper which you enclose desiring to know the writing can only partly be deciphered It is "Fl. light purple — the date probably June On hills near Fronteira. Common"

I have not seen the paper on Cereus giganteus I am not a subscriber to Silliman's Journal — Could not you send me a copy of your article?

I have never been able to find since the first time that "large fruit, edible, delicious" though I have more than once visited the same locality and found apparently the same plants but the fruit has uniformly been injured

The dried specimens sent you (duplicates when the number would admit) were intended for yourself

Dr Gray has quite a number of Cactaceae from my living specimens and from Lindheimer (I believe) as well as many more young raised from my seeds But he has also a considerable number from a

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some of
garden in New York, which Mr Tavanaugh his gardener
persists (I doubt not wrongfully) in ordering to me — so you
must not put too much confidence in specimens received
from him against your own judgment He has also made
similar errors (though few I think) in marking other plants in
the garden as from my seed — When I go to Cambridge
I will try to solve your doubts with regard to the specimen
sent you by Dr Gray which you conjecture to be Echinopsis oxy-
gona I dont know that I will have time to separate
you a set of Euphorbiaceae It was a kind of afterthought
to send the Coccineas but I was desirous that they should be
worked up and being few in number I separated a set which
was sent you

Echinocactus Wrightii I supposed I found at Austin because
I took it for a large form of E setispinus but I have a specimen
of this last growing here at home & I see the great difference between
them — We planted the seed I brought home with me & the
Mammillarias & Echinocacti have some of them germinated
but none of the Cerei are yet up. Why is this?

Dr Gray has some specimens of Cereus Greggii up as well as many
others from my seeds

After your mention of C. giganteus you say "I include a copy"
If you mean you have sent me a copy it is all right though
it is not yet arrived — I may receive it by next
mail

Yours cordially

Charles Wright

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Ans: Jan 22
Ans Jan 27

Agy 103 pp. (Jan 22 March 16 May 65) Jan 26

Wethersfield Jany 8th 1853

Dear Dr

I returned home yesterday from Cambridge where I have been sometime with Dr Gray during which I took a quick run to New York & back again to attend to the procuring of paper & some books While in Cambridge I looked over your manuscript & made a few corrections only I will make but one or two more remarks further I thought you did not give Dr Bigelow quite so much credit as he deserves I related of assisting me he rather went on "his own hook" and went rather ahead of one in his investigations For one thing I rode my own horse & he a government horse & I could not afford to ride mine hard in the spring when grass was scarce and corn a negative quantity If he rode down one the Government was obliged to supply him with another — whether they did or not is a different question — at least if he had rode his horse to death it would not have been so much money out of his pocket as I felt it would be out of mine under similar circumstances

Cereus Greggii you represent to be much branched on my authority I hardly think I could have told you so The truth is it is very sparingly branched I think I never saw a specimen with more than four or five branches & the greater number with 1-4 —— I had written thus far when I bethought me of a journal I kept on my way out in the spring & summer of 1851 - & I will copy my note on the

June 4th

first specimen I found. I found in camp a sp. of Cactaceae undoubtedly C. Greggii to the description of which in Wislizenus' Report I can add something of interest. It grows from a large fusiform root 20 inches in ~~down~~ length and 7½ in diam in the largest part near the crown from which two main stems about ½–¾ inch in diameter rise 2-3 inches to the surface of the earth when they have been burned off but have subsequently sent off three main branches which have again branched so as to form 15–20 smaller branches or joints. From the surface the stems or some of them rise about two feet. Two or three of the branches are dead from the effects of fire or other cause. It was found (as well as another smaller specimen) in loose sandy alluvion near the margin of the Pecos growing among mesquit Condalia Obtusa and other bushes. The branches are not only pentagonous but hexagonous perhaps as often" I will merely remark that I have never since seen a specimen with so many branches nor growing in such soil.

When I wrote for the plants first sent to you through Lindheimer I had in view a few only which are desirable plants & which I wished to distribute as Trichocoronis Wrightii (the best specimens I ever collected) Nymphaea elegans (do) Passiflora foetida &c &c I wished them also for Dr Gray to notice in Pl. Wright. for localities &c But as the distribution is now made & his paper well nyh finished you need give yourself no trouble about the matter —— The other package I suppose contains nothing of interest more than what Lindheimer has already sent — I remember being in company with him

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when we found Abutilon hypoleucum & I presume you will find specimens of it among my plants

I hope Mary Emory will not continue to object to the publication of your memoir on the Cactaceæ as I think it very important to make these discoveries known as soon as possible

& get no certain information how soon we will sail I shall probably remain here till ordered to join ship

Yours truly

Charles Wright

Dr Geo Engelmann
St Louis Mo

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Dr. George Engelmann
St. Louis
Mo.

SPRINGFIELD, ILL.
MAY 1
1879

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Rec'd N York Nov. 14th

Cambridge Nov 8th 1856

Dr Geo. Engelmann

Dear Sir

My attention was struck by the observation at the close of Opuntia arenaria that "This is the only one of our Cactaceæ on which the Cochenille has been found" Your informant have certainly not been very close in their observations The insect is quite a common thing on the Opuntias of the Blanco & Guadalupe rivers as well as the high prairies between & around them so that the children often dye their faces & fingers with them I have seen them also on the high plains of western Texas & pointed them out to Col Graham as we journied Of course I can not venture even to guess at the species of Opuntia so inhabited by these insects

Dr Gray says he receive your letter & the enclosed check He is very busy or would have written — but will now wait till you return to N York He will send you a few parcels to take to Paris — directing them to Westermann's I expect to sail from Boston

on Monday (the 10th inst.) or Tuesday

Wish you a pleasant visit to Europe

Very truly Yours

Charles Wright

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Rec'd N York March 4th

Cambridge Nov 10th/56

Dear Dr

Our friend Dr Gray has just received another part of the Botany of the Herald to which he desires me to call your attention

A large number of Cactaceæ are described briefly therein as new but no specific names are given to most of them The descriptions of these are by Scheer.

There are also about a dozen Euphorbiaceæ by Klotzsch which you may do well to consult before completing your paper on that family — only 2 or 3 Stipulate here

I expect to sail on the morning of the 12th wind and tide favoring

Yours truly

Charles Wright

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Dear E,

Thanks for your kind letter of the 4th —

I'll look after all your memoranda, — at the end of this week. — am dead tuckered now. —

I will send on, perhaps to-morrow to Westermann. Your copies of Lactaires for France — to take yourself to Paris

If you make little steps in Paris you could leave all for distribution with the curator of Selects Bertrand + library the kind Lafèvre. —

I am a going to make you take 3 copies of my Manual with you to Paris. if I get them in time, also. — and shall send a letter of introduction to the excellent Selects,

Quinine cured up my wife's headache — and she is now about herself again. — and send

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her best regard to you & Gray,
& her love for Mrs. Engelmann.
I will wish you a good
time now. I a propos more -
but I mean to write to you
again before you start.

Ever Yours

A Gray

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Rec'd May 13
A

Monte Verde
March 23d 1860

Dear Dr. Engelmann

Glad to hear from you again. Yours of 7th all came today through Dr. Gray. This time I have been but little among the Cactaceæ. At Nouvelle Ophir I saved some bits of Melocactus but it was out of season mostly. The Opuntia of which I have seen several (not cylindrica) are near the coast. I have seen no Mamillaria nor any cult. as well as I can now remember

Yours sincerely
Chas Wright

Our business is formed here.

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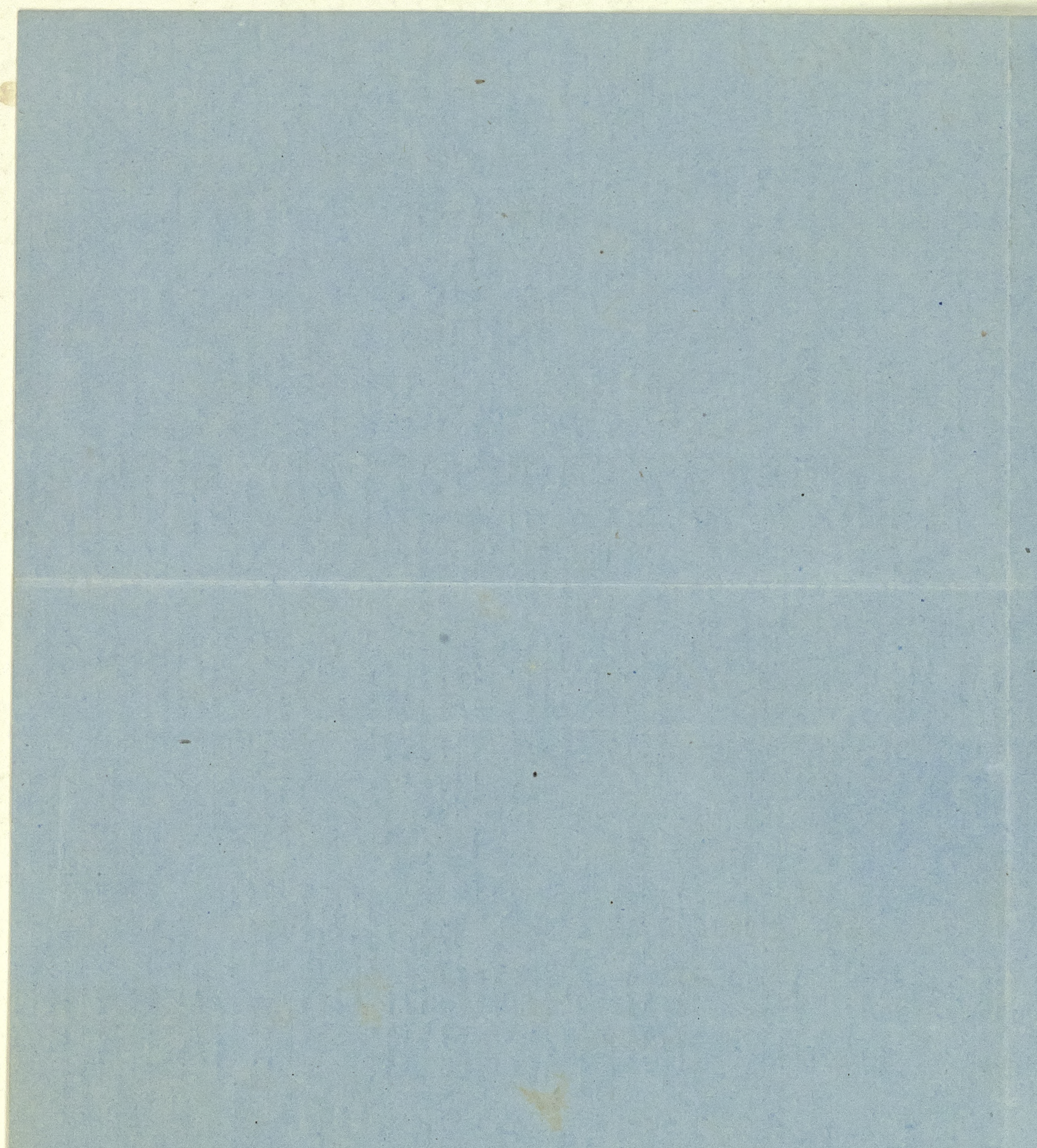

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Dr Georg Engelmann
St. Louis
St. Louis Mo
Missouri

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Rec'd March 8. 1865
Ans July 6 1864 Retur Feby 3rd 1863

Dr. Geo Engelmann

My Dear Sir

In your last received some time ago you rather reproached me for not sending you seeds of Peresk'a. I now send such as I have been able to find ripe. The indigenous sp. I have seen only near Guantanamo quite in the eastern part of the island.

Of the sp. which I send the leaves P. aculeata probably are lanceolate acuminate somewhat succulent about an inch or 1½ inch long. The fr. is yellow the size of a musket ball (you probably know by this time how big it is) furnished with 8-12± linear lanceolate reflexed scales scattered about at all heights from the base to the top of the fruit which is quite sour The flower is white

I found your note here on my return from a long excursion westward

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I brought back many things not met with in former herborizations. If the war continues a few years longer perhaps I may nearly exhaust the Cuban flora so far as concerns botanical novelties Now however there are many things yet to gather. I have not yet got half the palms & there are a number of little bits of things after the style of Desmidiothea & Micrasterias? I have yet had no books To study the endogens & one can't collect thoroughly without studying as he goes. Of this I become more & more convinced every day. I know from the accounts of the people a number of good & curious things which have not yet lain in my track but which I hope to stumble on one of these days

Dr. Gray says I can come home when He "swear to the "Proclamation" ~~& to~~ "take the Presidents oath of allegiance" & "be a good & peaceable (that's what I want) citizen (subject) of a

Lincoln's Dominion"!!!!!!!!!! Guess
I'll do all that. Where does that Dom-
inion lie??????

Yours truly

Charles Wright

Dr. Gray.

Dr. Engelmann
St. Louis
Mo

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Rec: April 3d – 1865
Ans April 5 –

Cambridge Mar. 28th 1865

Dear Dr

Pinus Cubensis

I am happy to acknowledge the receipt of your favor of the 22d. and I shall try to enlighten you on the subject of the pines. I am pretty well persuaded they are distinct species (revoked in a later letter)

No 699 is abundant from the low coast plains to the height of Monte Verde but I cant tell you how high this is

No 700. 1052 returned by Gris as P. Cubensis var. This so far as I have observed is rare and only on rather high ridges.

I cant point out any difference in the size shape or general appearance of the trees

I cant say any thing very certain about the time of flowering – Spring, I believe

Nor can I without much trouble now say when the specimens were collected

Neither can I say how long the fruit is in ripening

But this I can say that I find P. Cubensis with the ones lateral low down on the branches always reflexed and the leaves ~~too~~ in. threes

— perhaps not every sheath having three but that is the rule (grow from the terminal bud

No 700. 1052 has the cones terminal ^ some low down on the branches, erect never reflexed even when ripe and the leaves in twos The cones of this Oaxaca though were larger and of a lighter color.

I was so confident of the distinctness of the species that I did not take such precautions as I ought to have done against the possibility of a denial of my conclusions I shall be more observant when I go back to Cuba. I am now about through with my work on the old Exp. Exp. Plants and hope to be off for Cuba the coming month. This time I go to glean — dont expect to make much by the sale of specimens there will be so little of novelty comparatively But I shall have some advantages I had not before. I shall arrange to be always in funds. Before, a succession of blunders kept me always cramped and I could not travel as freely as I wanted to do

Yours Truly

Dr. Geo. Engelmann Chas Wright

P.S. It being a "fixed fact" that some cones (or the cones of one species) at full maturity are quite erect. can it be possible that they should afterwards be uniformly refracted or reflexed? To me it seems quite improbable

I believe I have no copy of your & Bigelows great book on Cactaceæ. Am I not entitled to a copy? And how am I to get it?

Another thought about the reflexed cones. It is my impression that they are reflexed with regard to the branch so that if this is pendent or ascending the cone points upward more or less I will not affirm positively that it is so tho' I believe it

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Rec'd May 2d
Ans Jan 26 1868

Wethersfield Ap. 27. 1865

Dear Sir.

I am overwhelmed by the demands you make in yours of the 6th inst just sent me from Cambridge & had better cry "peccavi" at once I shall have to settle down in a "final" set up a sawmill and calculate on a stay of two years to complete the history of one pine tree. While you intimate that there may have been a mixing of the specimens of pines Gyriebach says there is "confusion worse confounded" in the palms as many as four distinct species (flowers fruit or leaves) having been sent under one number Dont believe it! However the fruits fall off so easily & roll about so willingly that they ought never to be kept 2 species in one room Sent with no specimens to look at I can say nothing more in respect to the pines but to protest against a P.

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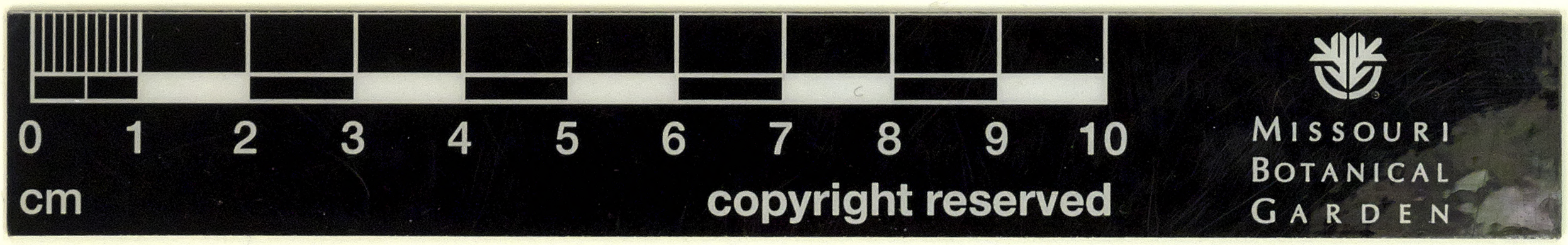
Wightii. Dont name it so under
penalty of my everlasting displeasure

Then was one Japanese Pine, I believe
I dont remember any thing

I cant give the localities of the Cuban
Callitriches

The Cuban Pines can not properly
be called "high mountain pines" being
found at various heights on the moun-
tains which I would not characterize
as "high". The difference in temperature
can be but a very few degrees I think
The difference in position of the ripe
cones appeared to me the most striking
character. I am however not disposed
to question your intimate knowledge
of this family. I could never tell one
of these (supposed) species from the other
by the bark nor the ramification nor
any other notable character

I go to New York on Monday 1st
prox. & by the first steamer to Havana
I hope I shall now & then get a line



from you through Dr. Gray

Yours truly

Charles Wright

Dr. Geo. Engelmann

St Louis Mo.

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Rec'd Aug 24th
Ans Jan 26 1868

Chas. Wright Cuba July 29th 1865

Dr. Geo. Engelmann

Prof. Torrey's envelope

My Dear Sir

May I beg of you to devote a few minutes of your time to a synopsis or enumeration the briefest possible of the Cuscutas and the Cactaceæ of Cuba since that part of Grisebach's Flora which contains the Cascutas has been in my hands I have met only two Sp. one of which agrees pretty well with C. indecora Choi. the other growing on Trianthema and other Portulacaceæ and Amarantaceæ I cant identify with any of his Sp. With Cactaceæ it is still worse.

I haven't yet got into the pine country and except the two Cuscutas do not yet meet any of your pets I am now on new ground & find it interesting Soon I shall go westward. For indeterminate ramification rectangular. stiff and pungent branches the savanas of Guamaroca go far ahead of Texas. A Bucida and a Randia have every branchlet terminating in a trident three diverging spines and almost every thing else can boast of one at least while a mimosaceous bush is stellated with them three inches long; as bristly as the "fuller's porcupine"

I shall be a good deal in the dark about many plants which I have already distributed until Grisebach's catalogue is published. Some genera bother me amazingly - Echites Tillandsia &c

Yours truly

Charles Wright

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GEORGE ENGELMANN PAPERS

Dr. George Engelmann
St Louis
Mo

Rec'd Nov. 4th
Ans'd Jan 26 1866

Valestown Oct 12th 1865

Dr. Geo. Engelmann

My Dear Sir

Mr Lawalle has had the kindness to make me some plain but faithful sketches of such curiosities as I have met with since coming here. I had a single specimen of another species also in fr. but it was not saved. You have flowers I do not doubt of all the sp— here figured — of Nos 2 & 3 certainly. No 1 is found creeping over rocks on the hilltops on sides of limestone cliffs & perhaps elsewhere No 2 is from a cultivated species which (the seed or a cutting) was sent from eastern or central Cuba & does not occur wild in these parts. No 3 is common along the sea shore or on the edge of saltmarshes but flourishes also in the interior The fruit of all is yellow. the pulp white dryish and full of seeds. The two last sp. are erect and branch flowering at night but one sp. (I can not now tell which) always expanding its flowers an hour or two perhaps more earlier than the other I hope Dr. Gray has sent you my notes upon them. I send with the sketches a paper of seeds of each sp. and a bit of the cuticle of the fruit. The fourth one you may perhaps identify by the seeds & the cuticle Moreover The flower of this is subpersistent (an semper?) the fr. tapering upward into a blunt point and it is one of the climbing sp. common among the petioles of palms & other trees in the low lands though I got this fruit on the high hills. May it be different? I think not for it is not confined certainly to the low level lands but is found near here though not common certainly in the hills

I have not yet got among the pines tho' I am within a few hours walk of them. Just now I am more interested in

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the endogens and ferns from the fact that now I have a book for study and comparison — Grisebachs Flora of the B.W.I.I. — which at least the later numbers I had not before.

Please write me as soon as you can and tell me something of these plants — also of the Cuscutas and oblige

Yours very truly

Charles Wright

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GEORGE ENGELMANN PAPERS

Wright
Cuba

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Rec'd July 23 1866
Ans Jan 26 1868

Return July 30 1866

Dr. George Engelmann

Dear Sir

It is a long time since I wrote you — about a year ago I guess but longer still since I had any intelligence of you. When I last wrote I begged of Mr Sawalle the favor of some plain but faithful drawings of Cactaceæ (Cereï) three or four in number which I sent you I fear they never reached you. I would be glad to know they did. Our friend Blain has two species growing side by side very similar in many respects — in all respects indeed — & yet there are differences which I can hardly ascribe to varieties of the same species. They differ in height, in the length of spines, in the prominence of the ribs — all of which are uncertain characters. But they also differ in the epoch of inflorescence and in the hour of the day or night rather when the flower opens. There is also a difference in the form of the fruit — one having a sort of beak or tapering at the top. One is now covered with ripe fr. while that of the other is still green (both are yellow when ripe). There is also a difference in the scales of the calyx-tube. Moreover one is from the north coast the other from the south — both littoral I believe & furthermore one grows about here the other away to the eastward. In my notes I have recorded all or most of these differences. I would like to know what you think about them. When I was in Habana about a year ago I gathered & dried specimens of two Cereï which I doubt if you get have from Cuba and there is at least one sp. of which I have sent only a flower with a scrap of the stem. In the low flats near the coast in the vicinity of Guantanamo is a huge cereus or Opuntia which I saw only in fr. The joints are flat or flattish like Opuntia & on the old trunks I thought I could trace rows of areolæ

as in Cerros. There is yet a good deal to be gathered in Cuba. I have yet only a small part of Grisebachs "Catalogus Plant. Cub." The second remittance which should have made known to me his views of the Cuban Cacti has not come to hand – probably lost or stolen

No pines yet this year nor Cacti. I fell from a little tree two weeks ago & though I am now doing something I am only half a hand. I hurt my right shoulder badly & broke nothing though. I feel some slight effects from it across the back too particularly when my horse makes a false step or when I get a sudden twist

I shall be glad to hear from you & remain

Yours truly

Charles Wright

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Dr. George Engelmann,
St. Louis,
Mo.

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Rec'd Sept 17
Ans Jan 26 1868

Ritzville Aug 13th 1866

Dr. George Engelmann

Dear Sir

I dont know as it will do me any good to write to you & send you a little purslane for your opinion about it for it is so long since I heard from you that I might fairly conclude you had forgotten me

The little plant enclosed abounds in a certain district - low flat palus savans - growing for preference, apparently, on a kind of ferruginous sandstone (I am no geologist & you need not place much reliance on the exposition of these rocks) growing also in the soil of the savans. The fl. is white or is not quite so tinged with yellowish. It is quite as often 4-petalous as 5-petalous. The seeds are black & pretty strongly granulate or perhaps minutely. With it grows another or a variety. Larger (fl. not seen) seeds larger cinereous or lead-color less distinctly granulate. This is more nearly erect or ascending while the former is prostrate or nearly so.

I have been in the low flat pine woods lately but saved no specimens, as there was nothing about them which indicated a different sp. from those already in your hand and because I found an abundance of other things which were either new or appeared to offer more interest. I have now three sp. of Nymphaea. from this vicinity N. amplа, N. Kuhgeana and the other I cant make out but it is not N. odorata. Thus the number of sp. in the Cat. Pl. Cub. of Gris is doubled. Among the grasses & sedges I am making discoveries also. When I go eastward again I shall look out for Cactaceæ & I expect to find new species. I d

know what I have already found not having received the sheets of Grisebach's report which contains that family. I have only the 1st 3d & 4th remittances the 2nd having entirely failed (lost) and the last not having yet come.

I am thinking seriously of undertaking a "Flora Cubana" and am now collecting materials and making my notes with this object in view. When I am tired of wandering over the savanas & climbing the hills I shall perhaps sit down in Dr. Gray's herbarium and devote a year or two or more to this work. My personal experience will enable me to throw light on many things & correct errors into which writers fall who have only dried scraps to describe from. There are many such (errors) in Grisebach's works.

Yours truly Chas Wright

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

Dr. George Engelmann
St Louis
Mo.

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Rec'd Sept 28th
Ans Jan 26. 1868

Cambridge Sept. 22nd 1867.

Dr. Geo. Engelmann

My Dear Sir

Your favor of the 12th came duly to hand
Thanks for the Photograph.

Now I am going to give you my opinion about the plants you refer to Portulaca pilosa. Perhaps you may change yours, or I mine. If not we can agree to disagree. In D.C. we have the main characters or the distinctive ones (of P. pilosa) as "purple flowers & many stamens". P. halamoides has "yellow flowers and fewer stamens". This latter is a coast plant and abundant every where, (on the coast) That with purple flowers is found more sparingly & in the sandy savannas of the interior. Then in the low savannas also of the interior though approaching the coast is found P. quadrifida the little plant I sent you in a letter. Dr. Gray has specimens from East & West & from the islands of the sea by all recognized as a good species. The peculiarities I noted were it 4-petaled white flowers and their expansion later in the day — midday and later — also the small number of Stamens

P. pilosa, stam. ∞. Styles 5. Sem. nitentibus, cinereis, muricatis.
P. halamoides " 9-10 " 3-5 " cinereis seriatim muricatis
P. quadrifida " 8-12 " 3-4 " obliqué reniformibus muriculatis atris

I have often observed in conversation about differences of opinion that one who has seen the plants growing has some advantages over him who only studies the specimens & this is particularly true of plants which make such horrid tumble-to-pieces specimens as the Portulacas. I should say from my observation in the field and my limited knowledge of herbarium specimens that these are three good legitimate species. True the seeds are very much alike yet there are differences though slight of form sculpture size and color. which taken in conjunction with differences of habit size & color of flowers time of flowering number of stam. & styles &c seem to me sufficient characters to establish distinct species

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now about Cactaceæ. Grisebach (Enumeratio Pl. Cub.) credits the island with 15 species. There are certainly two more—cerei. Of one I have seen but a single plant found by Gundlach & now in the Gardens of Don José Blain. From this I cut a single flower and a bit of one of the ribs. I believe the specimen is in the herbarium here. The other is a great branching one 20 ft high or more with a trunk one foot or more at the base. Of this I have some as good specimen as I could well make—it being necessary to collect them (one day) and arrange them the day following—the locality being at a considerable distance from my stopping-place. I got good specimens of Peiresia portulacifolia (fl.) but there was no fr. Of Lemna Wolffia &c I can say nothing till I come to them or till somebody that knows them gives them an overhauling.

Did you get some drawings of Cactaceæ given me kindly by Mr. Saavalle which I sent to you in a letter?

I have also in Portulacaceæ Sesuvium pentandrum Ell. also a new Mollugo or what I consider such and a new Glinus like G. jamaicensis procumbens. I shall have to reduce to old species some of Grisebachs new ones—thus Acyrum baleense is A. amplexicaule On the other hand Acyrum gulioides must merge in A. crux-Andreæ &c &c Most likely many others will go the same way. Hypericum gelioides Lam fasciculare, N. axillare, Lam & even linosyn Gris. look too much alike to be brothers.

I shall be happy to hear from you at any time

Yours truly

Charles Wright

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P.S. Dr. Gray & wife are at Beverly. Mr Loring is in poor health & Mrs Gray stays with him a good deal Dr. G. will be back tomorrow

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Rec Jan 25
Ans Jan 26

Cambridge Mass Jan 20/68

Dr Gev. Engelmann.

My Dear Sir

I enclose you a bit of two gatherings of Callitriche whether they are two species & Quien sabe?

They grow in muddy places along roads in the woods where they are shaded appearing as the watter pools are beginning to dry & in their most luxuriant condition when the mud has become almost dry when they almost cover it and make a wee bit of a turf if I may say so of a thing that is not grass. I examined the thing today & could not satisfy myself that it is anything in Hegelmaier tho Lyrebach refers these two Cuban species which look much like them. Perhaps tomorrow when I have better light I shall succeed in making them out

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They dont look exactly alike but this may be owing to a difference in age. In one the leaves are all uninerved in the other some are trinerved others uninerved

Some time when your are writing about other matters please give me your opinion or your thinkso & oblige

Yours truly

Charles Wright

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Recd Feb 6

Caulsidge Jan 31st 68

My Dear Dr.

Yours of the 26th came yesterday while I was at work & and I put it into my pocket till night for I cant well spare good daylight to decipher hieroglyphics!! Unfortunately I didnt observe that a part of it was for Gray — so he didnt get his morsel till night neither

But you find ideas in my remarks that are there by some Mesmerism on the way to you. When I proposed that you should give me your word about the Calliriches any time you might be writing on other matters I meant just what the plain meaning of the words indicate thinking that those two little bits were hardly worth making a speciality of

When I gave my views about the Portulacas if I did not expressly say I thought at any rate that the seeds didnt very well support my views and I relied a good deal upon the habit & general

appearance. I am not disposed to undervalue the importance of seed. Dr. Gray calls seeds your hobby. Since I have been studying Onagraceæ I can ride that hobby with any other man & I'd like to see him who will ride it longer or further. It is just my opinion that there is not one single other character equal to the seed for specific distinctions. And how shockingly this character has been neglected

When you come I can tell you more about the Cuban Cactaceæ in half an hour than I could by writing half a day.

The Cactaceæ are so few in Cuba that I doubt if the differences except where they are striking are indicated by different names All of the Opuntia tribe are called Opuntia & the cereii Pitahaya Melocactus is so rare that but few know it and the little Mammillaria likewise Moreover there is no reliance to be put in the names given unless one is qualified by a thorough knowledge of the language To

cross question the people. Besides the same plant is known by different names in different districts. In some the population is largely french from Santo Domingo and among these quite distinct trivial names are used.

We have Vitis Lenabdu and some sp. of Cissus playing with a great number of varieties

I got a queer little Juncus in Cuba & sent a bit to gray ig I remember & ig I did he sent it to you. It grows mainly under water & I had a long hunt to get enough of the almost invisible flowers

Very likely I may sent you bits of Leullitricha but these last are from the last collection which I just brought home yet they may very well be the same as the former. They love to grow in wet places in the road just after the mud has dried up & naturally are

often met with

If I remember well I have no copy of those Bigelow & Whipple cactaceæ Most of my books are in Wethersfield but I have no recollection of having received the great work I see here in the library

There I have complied with your request to "be good & answer soon" so I shall bid you good night as it is 12 and time all honest people were in bed as they used to tell me at 9 when I was a boy

Yours ever

Charles Wright

Dr. Geo Engelmann.

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Ch. Wright, Najadeæ mexicanæ Cubenses July 1868

I don't know as I should feel quite comfortable while rooting about in mud for Thalassia & such things if "little Atcheson" were about or he might by way of a stand get a specimen of an anomalous mammal to be named Pseudomuriati Wright ~~Cuvier~~, At all events I should want to be in water deep enough to dodge under if I spied any shooting-irons about

I counted the stamens in a good many ♂ Thalassia & found them variable from 9-13 perhaps rarely fewer or more than that number I spent hours in the shallow low tides in search of ♀ which was less abundant though I found a considerable number of plants of it Nos 8485 are ♀ and not very remote from each other and about a mile it may be from the principal locality of Thalassia. Tho', this is abundant in many parts of the coast.

84 I found it I can trust to memory only a single male plant or flower or perhaps a pair, polygamous specimen I was particularly interested in these things after discovering the ♀ Thalassia and as it was very comfortable rooting about in the sea

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in 1881 [illegible] I examined & described them as well as I was
able But some of my notes have been obliterated by
the wetting the plants suffered on their way home
I dare say your friend would like a plenty of spec.
wet & dry & in bottles & bales but "poco tiempo". If I
ever ~~get~~ go again to Socorro I shall not be likely
to forget the Halodule & Cymodocea now that I
know'em by name as well as when I see'em
85 was pretty widely diffused tho' in many
places I could find no fructification. 84 grows
61 — tho' in other places I saw apparently the
same thing but in none of my pullings could
I get anything but roots & leaves.
Cenissenia Wrightii, vivo dochissima (in a hurry!)
egregia perfoliata, judica, all these little
things grow at about half tide and downwards
don't know just how deep but I find the
(very extremities ~~of~~ and all
leaves sticking out of water at low tide
Thalassia in muddy bottoms the others on sand
What a curious old fellow Adanson must
have been to find out all these things & give
us names which have been overlooked ever since
and so abundant as some of them are at least in
spots

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Rec'd Heidelberg Aug 4

Cambridge July 28th 1868

Dear Dr. Engelmann

Yours of the 9th–18th came yesterday, & glad to hear a disash from you and in a jolly mood & I may judge by the tone of your communication

I shall give you some talk talk about the Bayaas cactaceæ of Cuba as well as my memory will serve me I have found it only in the coast region low and flat and among low bushlike timber or genuine bushes. It seems to be normally quadrangular with thickish ribs and not very deeply piercing angles. The branches are very firm little or not at all spiny or with very short spines. I first found it near Guantanamo in fruit during my first (or second) visit to Cuba This fr. is large green and very mucilaginous and I did nothing with it at that time. It may compare pretty well with a hens egg in size and shape with out scales or with few and small ones. Later I found it between Guantanamo & Baracoa and I shall pronounce pretty confidently about the spines from my recollection of this plant from which however I saved no specimen. I assume of course that these several plants belong to the same sp. The spines were largely developed in four vertical lines at and near the base of the trunk. This I remember well. You have some of the spines. Just before I left the island I found another near Guantanamo said spines are from this last-named tree. I say tree — for I climbed up into it with some caution be it remembered. The spines had mostly disappeared but there were

* Page becomes more or less glaucous

x Old trunk

some near the ground and more scattering ones higher up. Later I saved a single flower from Grandtachi's plant which you have seen here. I do not know the origin of it Don J. Blain in whose garden it was growing thought at first it came from the coast about Cabo Corso near Manzanillo. Lour afterwards seemed inclined to the belief that it was found near Bardenas. Our attention was not strongly drawn to it till after Gr. had left & we had no chance to make enquiries. Still later and after I had gathered those specimens at Havana and then seen again Don Jose's plant I came to the belief that this and one of the Havana plants and my Guantanamo one were all the same. It seems that I got fr. one of the Havana plants but it was my impression that it belonged to the other sp. with ribbed (ribs thinner?) branches (I will look again at the plants before I finish this & see if I can come to any satisfactory conclusion and make amend) for the blundering of "an old hand and careful observer" If one could only foresee all the doubts that dried scraps would create and the queries they would elicit he would provide for the removal of the former and the answering of the latter. Perhaps I can make you comprehend the odor of the flowers if it will do any good by a circumlocution. I may have given wrongly the specific name of the Polygala but its vulgar name in our part of the world is "spicy wintergreen" I have observed the same odor on bruising the roots of several other sp. of Polygala Further it is the same odor as is perceived in the the twigs of black birch!!! Now I think you'll be at no loss about it.

Havana is an inconvenient place to botanize in. Hot and crowded and fashionable and dressy, when I started out

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to botanize in my woods rig. I felt somewhat like a thief skulking out of sight. I could not wear good clothing for after a few turns in the chaparral it would all have become unpresentable. And then the accommodation for drying and caring for these things are on so small a scale that I could collect only scraps to say nothing of the very nature of the plants which necessitates the reduction of the specimens to scraps.

The two Havana species were gathered at the same time and place and I made rather detailed notes of one or both but if I remember aright while I was drying them the wind which in the little dew-fall of sunshine when I had to spread them blows "seven ways for Sunday" threw one of the labels in the way of a mischievous puppy which made of it a "jugete" This may account for the fact that there is not a good description by which to identify these two plants. As to the hour of the day when the flowers open you may take it for granted that it was the ordinary hour or sometime in the day or morning and not at nights unless I say so. I dont believe in spending my time in giving negative characters — generally though they may sometimes serve a good end. If a plant or an organ has no hairs on it I dont describe it as glabrous — what's the use of it? So of the flowers: if they are expanded at the time of day when flowers generally open there seems no necessity of saying any thing about it. The night-blooming sp. so far as my limited knowledge goes have quite a different general habit "What means spines or excrescences of the trunk rare above?" The bark I fancied exfoliated in part except on the axes la

leaving there a corky efforescence from which the spines grow in
seem to grow. and I have said above that there are few or no spines
or small ones on the ultimate articulations. That note belongs
to the Ignuntanum plants and to that seen to the eastward toward
Barranca and as I suppose to one of the Hacienda de Santa Rosa plants
(Grandiacheis) ——— I have been and looked over the cactaceæ &
they all seem to me clear as any thing can be. I wish you
had just looked at them (all together). The scribbled figure upon have drawn is
doubtless a section of
probably an old stem of the spiny one (Spines fallen?) that is with the long
& slender spines at all joints areola & spiny away below
The loose branches of spines (stouter) belong to the other one for
which I proposed the name of b. Grandiacheis. But I see that the
ribs are broad and the intervals wide & deep 3-4 nately
or never 5. The branches too are of a much firmer texture
than of the spiny one on the contrary being as I well remember
sap & succulent except the tough skin—the flowers of this too
are ever so much smaller. The ribs of the large species are
sinuate at the areola (you say the section which you
figure "seems" to belong to it. I think decidedly that it
belongs to the other. The cross sections of the large kind
are quite different Did I not put in any? If not it
was gross carelessness.

Hoping I have airmondated some of the obscurities I
remain Dear Sir

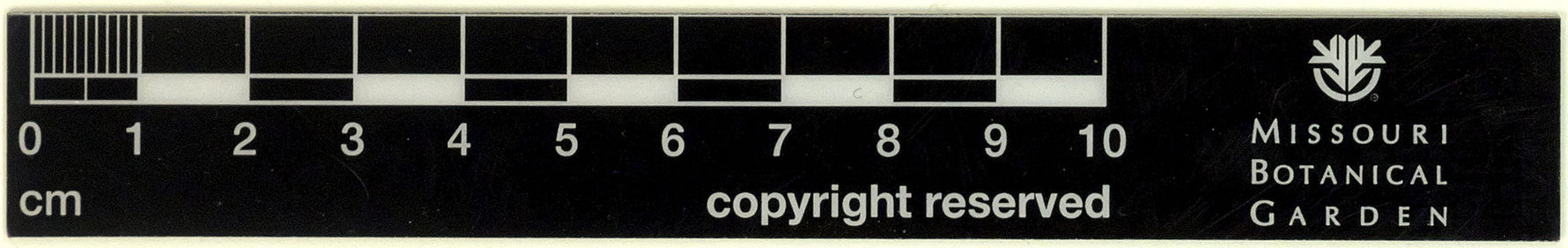
Very sincerely Yours

Charles Wright

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

P.S. Much memorias á la señora.

The Democratic Convention is in full blast. I hope
it may lay a train that will blow sky high that mass
of malepriety bigotry & corruption that pretends to be the U.S. Congress.



Rec Aug 18th 1870

Cambridge Aug 13
1870

Dear Dr Engelmann

"Late you come, but you come"
you may say of me too perhaps.
I was away at Brattleboro having
a little vacation when yours of the
25th ult arrived. Since my return
I have been busy and though I
might may-be have earlier attended
to your request I did not somehow
feel like it.

I have looked over the specimens
in Herb. Gray & copied some of my
original notes.

Cereus No 207 Does seed belong here?

Fl. open in the evening twilight, the cal.
expanding so as to be nearly erect (the cor.
remaining campanulate) later closing
gradually to the shape of the cor. Stem or
no transition segments (in color) from cal. to
cor. Sep. red—pet. white. Stam light yellow.
Pistil & tree May 23. Found in the plains.

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I see I've skipped a page but I guess you can make it out I remember once finding leaves Gymnocladus or G. dioicus Engelm. with fruit which was about as big as a hen's egg but nearly round & green (at that time) hard & very mucilaginous within

Hoping these records & reminiscences may help to solve your doubts I remain

Yours truly

Charles Wright

P.S. Will you let me know the results of your studies as soon as you come to it?

C. W.

Enclosed is the sheet H. & B. Rogers. If you think you can get any light from its darkness use it — otherwise return it. (There is only one glued down H. left in the herbarium.)

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undulosus DC

seed? tinged green mud flowers Engel n. 7
Trunk 1° ± diam. near the ground, branching
above, 20° ± high (but flowering when much
smaller). Pl clustered at apex of joints
curved (semper?). Cal. tube narrowly
obconic. Sep. green reddish on the margin
& apex. Pet. white or light rosaceous.
Stam. white. Stigmas 12± yellow. Pl.
diurnal emit the odor of Polygala pau-
cifolia or black birch bark. Spines
on excrescences of the bark much exagger-
ated in Plumier's fig which according to
my recollections well represents large
specimens of our plants. Low level
and even saline flats near the coast

Geneva 2623 & 2624.

These are coast plants. My friend Blan-
ton threw in his ground growing side
by side or in proximity. There is some
difference in the time of opening of the
flowers & in case of No 2623 2 have
noted "This sp. or var. opens at or before
sunset & closes long after sunrise. No

note accompanies #2024. I could not convince myself that they differed enough to deserve specific distinction

C. quinquealatus

By the other sp mixed with this we have not retained the least bit. Maybe I'll find some in one of the unsold sets.

C. arizonicus (2622)

is more branching & spreading and is confined (so far as I have seen) to very rocky (limestone) summits of mts. N notes accompany the spec. here. It seems to be rare.

C. Rosei (2621)

One spec. fl. here but seemingly "mushed & squashed to death" &c.

C. clavatus (2620)

A coast plant or at least in level lands. The fig. in Plum. reminds me of its general appearance but the spines of my plant seem intermediate between the two sp. figured tab. 195.

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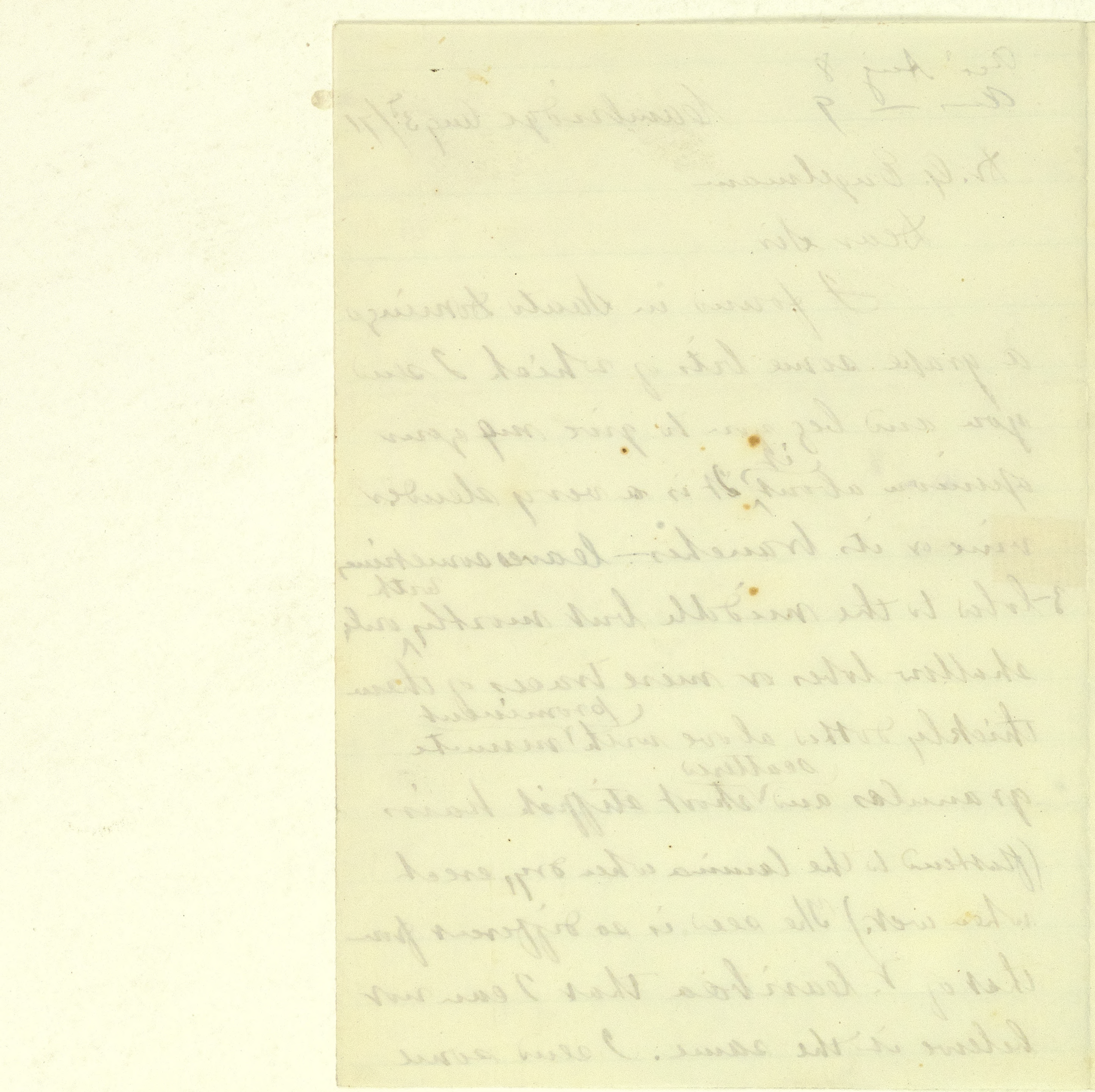
Rec'd Aug 8
Ans 9

Cambridge Aug 3d/71

Dr. G. Engelmann

Dear Sir

I found in Santo Domingo a grape some bits of which I send you and beg you to give me your opinion about. It is a very slender vine or its branches — leaves sometimes 3-lobed to the middle but mostly with only shallow lobes or mere traces of them thickly dotted above with prominent minute granules and scattered short stiffish hairs (flattened to the lamina when dry, erect when wet.) The seed is so different from that of V. caribaea that I can not believe it the same. I send some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fruit of this latter from Cuba also for comparison. Larger leaves of the S. Dom. plant 2-3 inches long and nearly as wide.

It is probably decurtely Vegne. Colonnense fig. 310. I can find nothing so much like it as that

Yours very truly
Charles Wright

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

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Rec' Aug 19

Cambridge Aug. 15th 1871

Dear Dr Engelmann

Thanks for your notes on the Vitis. Your former note of the 3 inst was duly handed me by Prof Gray and I waited to answer both at once if to the first there is any answer possible. About the Yuccas I'm sorry I cant give you even guesswork. Dear me! how is a body to overhaul the accumulated rubbish of more than twenty years and at the bottom to search among the trash for any thing recognizable. If I made any notes then they will count for so much. I had no means of study & didn't study. What the eye directed me to do that I did and it doubtless made many blunders but it would likely be a greater blunder now to call upon it for information upon which the tasks of more than twenty years have been superimposed. To expect to find still remaining impressions of those old-time images at the back of my eye would be about as reasonable as to read the original of a palimpsest twenty times written over. You will have to send somebody out there to re-collect and under more favorable circumstances to collect more largely & make fuller notes

Grisebach in Cat. Pl. Cub. mentions three sp. of Agave and the one of which I collected specimens is quite distinct from the one I saw in Santo Domingo. I am confident that in this case as in many others he blundered. The Cuban one & the only one I saw there as far as I know I believe is A. Americana It looks to me, trusting to memory, just like the plant so common on our S. Western arid plains. I collected A. Antillana very sparingly under difficulties—traveling—with scant paper—plants in fl. rare—no ripe fruit seen &c &c. We have Descourtils and from him I suspected long ago that Gris. had given the wrong name to my Cuban specimen.

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some of the Vitis leaves are more deeply lobed—I sent a very young shoot. How is it? Do the leaves after beginning to grow nearly entire afterwards thrust out the main nerves faster than the rest of the leaf dragging the adjoining lamina with them & thus form lobes? Dr Parry got some specimens of what we thought to be Fouquiera tubensis whose flowers were transformed into bubblets. I believe its natural habitat is on the edge of mangrove swamps where I collected it in its normal state—the flowers producing capsules or at least not changing to bubblets so far as I know. But removed to other localities & richer soils (very sterile is that which it seems to prefer) its vegetative growth becomes prepotent and no seed is formed. Is not this the proper explanation?

Yours truly

Charles Wright

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Rec'd May 7th
Ans same day

Cambridge Ap. 30th. 1872

Dear Dr Engelmann

Here is a little grass that I did not find in Cuba but Dr. Robbins did. I do not know just what to make of it. It has a chloridean look Will you look at it and if it proves as I suspect a novelty be so kind as to give me your opinion It calls to mind your Buchloe.

In a few days I go to Wethersfield Conn. to spend the summer or most of it—farming. I may botanize a little by way of pastime

Dr. Hillebrand left us today

Yours truly

Charles Wright

(a dwarfed state)

P.S. Dr Gray thinks it Eleusine Indica? The glumes however are hyaline and 1-nerved not many-nerved & strongly keeled & the spikelets seem 1flowered

Do you know
where I can find
out how long

Rec March 28
Ans April 2d

Wethersfield, 26th March 79

Dear Dr Engelmann

Here is a quest for information which came this morning. I suppose you can satisfy Mr Lowe in any body in this country. Can. Will you oblige me by sending me an answer, returning his note unless you prefer responding to him directly.

I was very sorry to hear through Prof Gray of your great loss.

I continue to enjoy pretty good general health for an old fellow and amuse myself in making local collections in the summer.

Yours cordially
Charles Wright

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Rec Feb 6th
Ans — 11

Wethersfield Conn. 2 Feby 1880

Dr Geo. Engelmann

Dear Sir

Yours of the 30th ult.
just received and very glad I am to get
another letter from you. But I am very
sorry to write that from my memory I
can do absolutely nothing for you unless
indirectly i.e. by knowing the localities.

There seem to be two classes of pinales
namely — savana pinales and mountain
pinales or better perhaps pine pinales
where nearly all the ~~growth~~ and trees is pine &
mixed pinals where all other kinds of
timber & shrubs grow among the pines.

The first pinal I saw is of the latter
kind and on the back-bone of the island
in the department of Guantanamo.
Another high pinal but hardtaking somewhat
of the character of both is in the Dep^t of
San Cristobal westward of Guantanamo. Both of
these are small in extent

Extensive pinales of the Savana class are
near Baracoa & to the S.W. & W. of San
Cristobal westward or S.W. from Auoura

As I feel that I can not help you let
me suggest that you write (in German)
to my good friend Juan Gundlach
explaining just what you want and I
vouch for him that he will do something
for you. He has traveled all over the
Island where there is beast, bird or bug
and he has more friends than any other one
man in Cuba.

Now as a pine twig hardly need more
than to be wrapped in a bit of paper
(with cones of course & cuttings if possible)
he can get his friends to send him these
from different parts of the island

There is a pinal near Matanzas which
I did not see, but near Baracoa I visited
a large one; also another large one near
Mayari, on the N. side and as above on the south
side of the mountains to the westward of
another

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Havana

If you will write to him and send here I will forward it: for you can tell him in german what you want far better than I can in Spanish—for it is a task for me to write in that language except the most common-place expressions. Or you can send to him direct: this

Señor Don Juan Gundlach:
Ingenio Fermina:
Bemba:

Ingenio above, the term by which any sugar plantation is known and Fermina is the particular one where he has long lived and where he has his zoological treasures. Bemba is the P. Office at some distance from the plantation

I have now been stationary here some four or five years pottering about the house

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helping the sisters in their housework—
a "lever of wood & drawer of water" taking
care of the fowls, nursing the grape vines and
fruit trees, fighting the weeds in their season
gathering nuts like the <u>other</u> boys & beating
most of them & so pass the years. I
am nearing my three score and ten but
I take my botanical play-days every
summer & enjoy the fun. Often I join
an excursion party, picnic & on foot
fun & explore the neighborhood turning
over my gatherings to Dr. Gray in the
fall. Last summer I found an odd
Eleocharis & sent him a specimen. He
says he knows it or has seen it before but
does not say which of our species it is.
I am waiting for I can't make it out.

Yours ever
Charles Wright

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Rec April 26

Wethersfield, Conn. 23d April 1881

Dr George Engelmann

Dear Friend

Returning last night from a short visit to Cambridge I find a copy of your Opuntia Pima for which accept my hearty thanks.

Also a letter from Lyndlack in which he says he has taken steps to procure as many specimens of Cuban pines as possible through the aid of friends and desires me to say this much to you in his name as he thinks it unnecessary to write on purpose to give you this bit of information. I trust you will get the specimens in due time

Ly. can not travel now so much as he used to do. His patron and firm friend has died recently and now more than ever before he feels that he must stay by the family to whom by his serviceableness and helpfulness and obliging disposition he has always been one of the indispensables. Consequently he has to rely upon friends some of whom are at considirable distances whence the means of conveyance are not always of the best

Yours cordially

Charles Wright

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